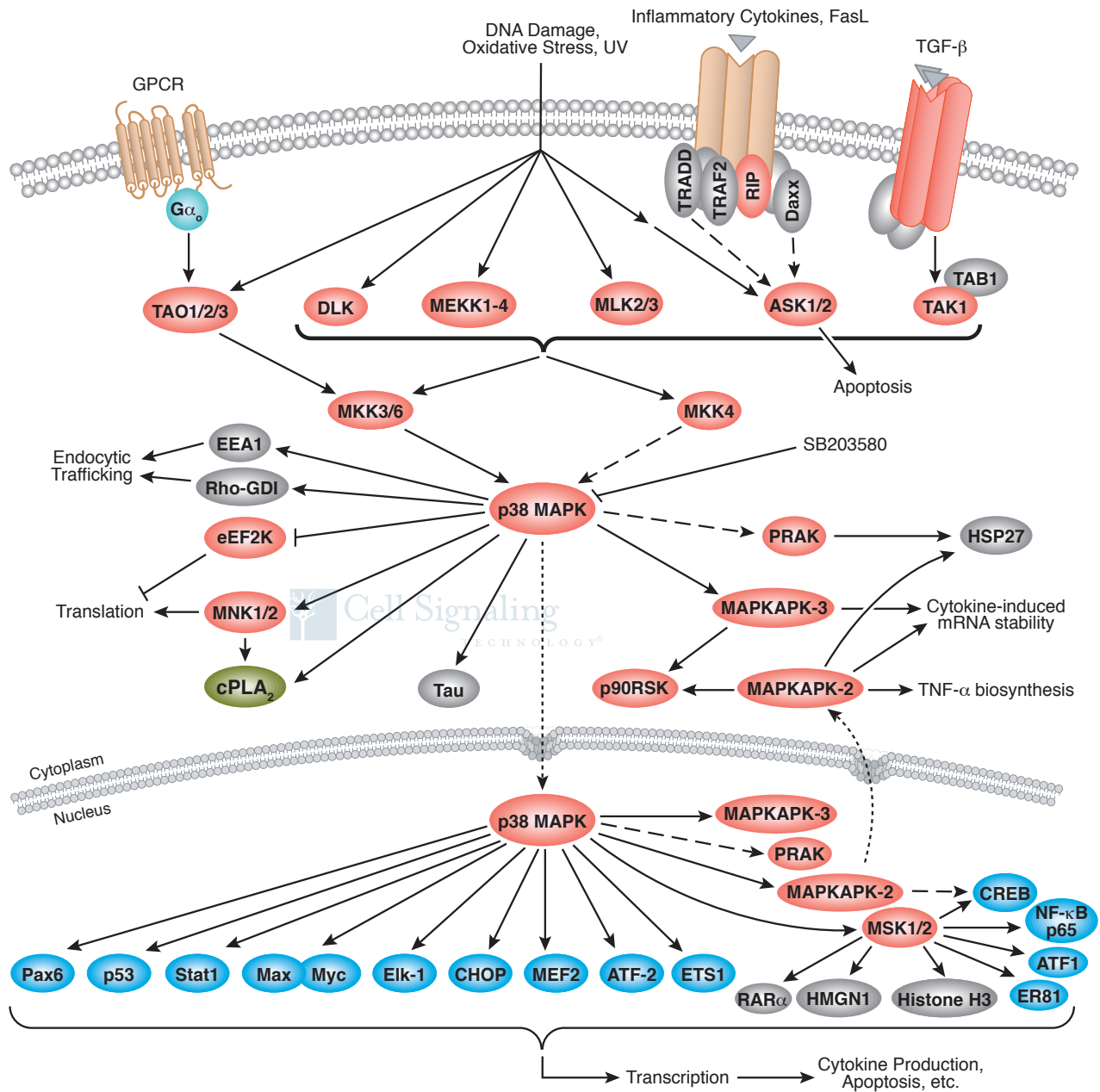


Signaling Pathways Activating p38 MAP Kinase



Pathway Diagram Keys

| | | | | | |
|----------------------|---------------|---------------------------------|------------------------------------|---|--|
| Kinase | Enzyme | G-protein | Direct Stimulatory Modification | Tentative Stimulatory Modification | Translocation |
| Phosphatase | pro-apoptotic | Acetylase | Direct Inhibitory Modification | Tentative Inhibitory Modification | Transcriptional Stimulatory Modification |
| Transcription Factor | pro-survival | Deacetylase | Multistep Inhibitory Modification | Separation of Subunits or Cleavage Products | Transcriptional Inhibitory Modification |
| Caspase | GAP/GEF | Ribosomal subunit | Multistep Stimulatory Modification | Joining of Subunits | |
| Receptor | GTPase | Direct Stimulatory Modification | Tentative Stimulatory Modification | | |